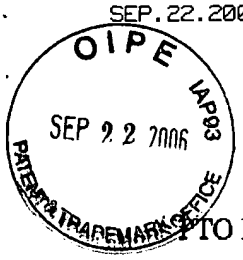

Atty Docket No. 018547-048820US

PTO FAX NO.: 1-571-273-2885

ATTENTION: Examiner Marianne P. Allen Group Art Unit 1647

OFFICIAL COMMUNICATION

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I hereby certify that the following documents in re Application of Michael A. Siani-Rose et al., Application No. 09/683,264, filed December 5, 2001 for COMPUTER SOFTWARE FOR AUTOMATED ANNOTATION OF BIOLOGICAL SEQUENCES are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Documents Attached

1. Transmittal Form (1 p)
2. Part B - Fee Transmittal (1 p)
3. Copy Part B - Fee Transmittal (1 p)
4. Communication - Comments on Statement for Reasons for Allowance (3 pp)
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Two Embarcadero Center, Eighth Floor
San Francisco, CA 94111-3834
Telephone: 650-326-2400
Fax: 650-326-2422
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TRANSMITTAL FORM

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Total Number of Pages in This Submission

Application Number	09/683,264
Filing Date	December 5, 2001
First Named Inventor	Michael A. Siani-Rose et al.
Art Unit	1647
Examiner Name	Marianne P. Allen
Attorney Docket Number	018547-048820US

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
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  - ☐ Landscape Table on CD
- ☒ After Allowance Communication to TC
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Remarks: The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature	Daniel Mao		
Printed name	Daniel Mao		
Date	September 22, 2006	Reg. No.	51,995

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By: Eleanor G. Taylor

PATENT
Docket No.: 018547-048820US
Client Ref. No.: 3407.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No.: 1024
Michael A. Siani-Rose et al.	Examiner: Marianne P. Allen
Application No.: 09/683,264	Art Unit: 1647
Filed: December 5, 2001	COMMUNICATION - COMMENTS ON STATEMENT FOR REASONS FOR ALLOWANCE
For: COMPUTER SOFTWARE FOR AUTOMATED ANNOTATION OF BIOLOGICAL SEQUENCES	
Customer No.: 33494	

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Commissioner for Patents
P.O. Box 1450
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Sir:

In response to the Examiner's Statement of Reasons for Allowance, Applicants note that claim 82 recites:

> 82. A computer implemented method for gene characterization comprising:
>
> generating a plurality of models using structural relationships of known proteins;
>
> inputting a plurality of protein sequences;
>
> determining a plurality of scores by comparing the plurality of protein sequences with the plurality of models;
>
> automatically selecting a plurality of hits based on at least the plurality of scores; and
>
> assigning the plurality of protein sequences to the plurality of models based on at least the plurality of selected hits;

wherein:

the automatically selecting a plurality of hits comprises determining a threshold for each of the plurality of models;

the determining a threshold comprises performing a curve analysis.

Applicants also note that claim 90 states that:

90. A system for gene characterization comprising a processor; and a memory coupled with the processor, the memory storing a plurality of machine instructions that cause the processor to perform logical processes comprising:

generating a plurality of models using structural relationships of known proteins;

inputting a plurality of protein sequences;

determining a plurality of scores by comparing the plurality of protein sequences with the plurality of models;

automatically selecting a plurality of hits based on at least the plurality of scores; and

assigning the plurality of protein sequences to the plurality of models based on at least the plurality of selected hits;

wherein:

the automatically selecting a plurality of hits comprises determining a threshold for each of the plurality of models;

the determining a threshold comprises performing a curve analysis.

Applicants also note that claim 98 states that:

98. A computer software product for gene characterization comprising a computer readable medium having computer executable instructions for performing the method comprising:

generating a plurality of models using structural relationships of known proteins;

inputting a plurality of protein sequences;

determining a plurality of scores by comparing the plurality of protein sequences with the plurality of models;

automatically selecting a plurality of hits based on at least the plurality of scores; and

assigning the plurality of protein sequences to the plurality of models based on at least the plurality of selected hits;

wherein:

the automatically selecting a plurality of hits comprises determining a threshold for each of the plurality of models;

the determining a threshold comprises performing a curve analysis.

None of the prior art references teach or suggest a computer implemented method for gene characterization, a system for gene characterization, or a computer software product for gene characterization as recited in any of these claims.

Respectfully submitted,

Daniel Mao
Reg. No. 51,995

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: (415) 576-0200
Fax: (415) 576-0300
DM:ejt

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